

EFSS Series

EVOTEK Suction Filters



Product Description

- Operating pressure up to 8 bar
- 50 l/min max. flow rate
- installation in suction line
- application in Mobile Equipment, Hydrostatic Drives, Power Units and agricultural machines
- compliant with industry relevant ISO standards(see ISO test below)

Technical Specifications

Application

Port Sizes:

Flow Rate:

Operating Pressure:

Burst Pressure:

Element Collapse Pressure:

By-pass Opening Pressure:

Material

Seals:

Filter Head:

Filter Bowl:

Compatibility:

Tested according to ISO standards:

Suction Filters

Threaded Connections according to BSP and NPT standard in ¾" & 1¼" and SAE12/ SAE20 threads

max. 50 l/min

max. 8 bar

min. 25 bar

4 bar

$\Delta p=0.3 \text{ bar} \pm 10\%$

NBR or FPM (-10°C to 100°C)

Aluminium

Sheet steel

Suitable for mineral oils, lubrication oils, non-flam fluids, synthetic and rapidly biodegradable oils (for use with water or other fields please contact our technical department)

ISO2941 Collapse/burst resistance

ISO2942 Fabrication integrity

ISO2943 Material compatibility integrity

ISO3723 Method for end load test

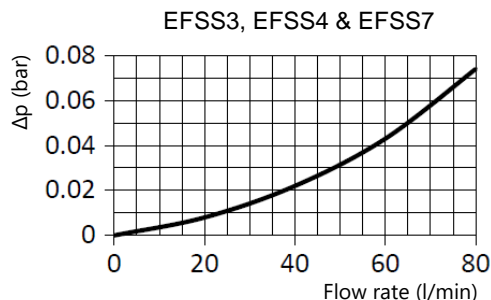
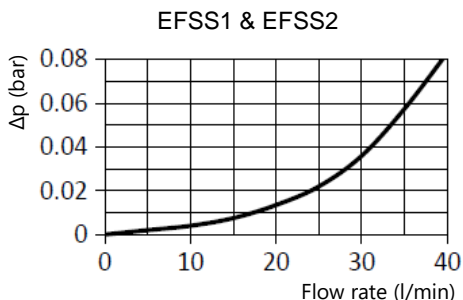
ISO3724 Flow fatigue characteristics

ISO3968 Pressure Drop vs. Flow Rate

EFSS Suction Filter Series

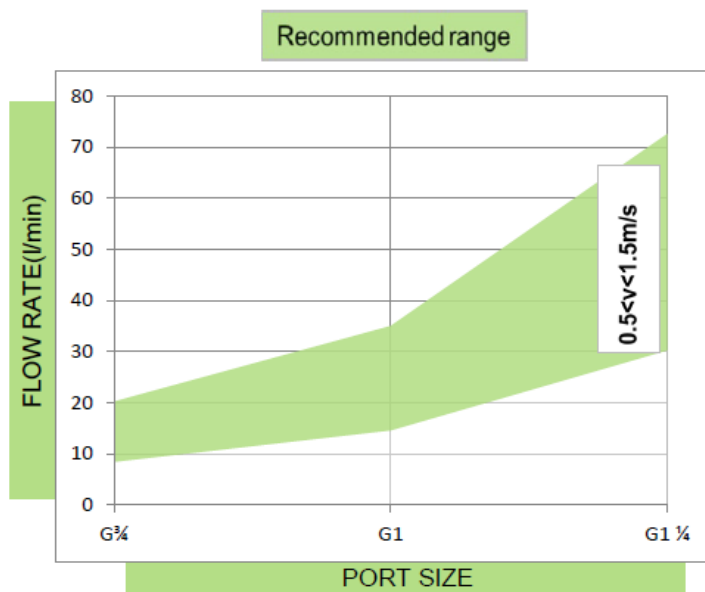
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

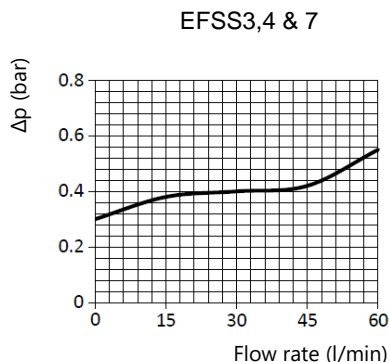
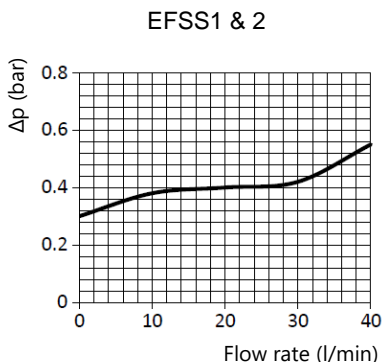


Graph of oil flow velocity

(we recommend to select size of the filter considering range of oil velocity between 0.5 to 1.5 m/s for pressure series)



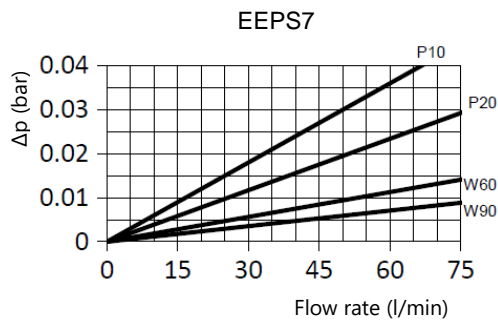
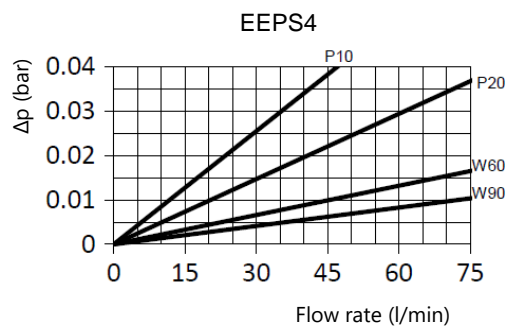
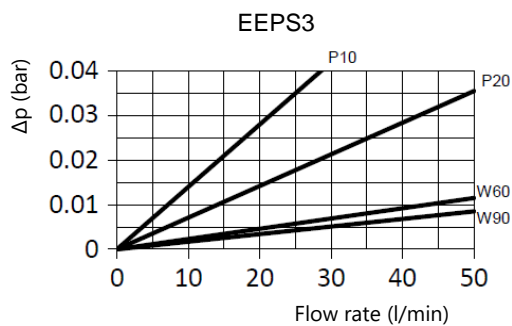
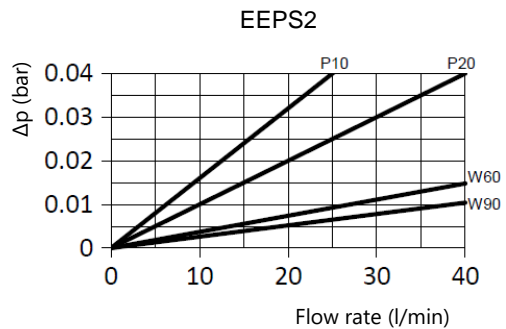
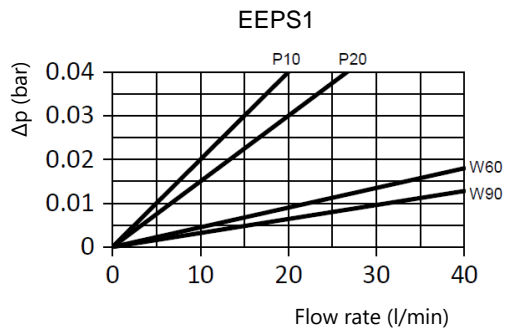
Pressure drop graph on by-pass valve



EFSS Suction Filter Series

Pressure Drop Graphs (Δp)

Pressure Drop with Clean Filter Elements (P and W filter media)

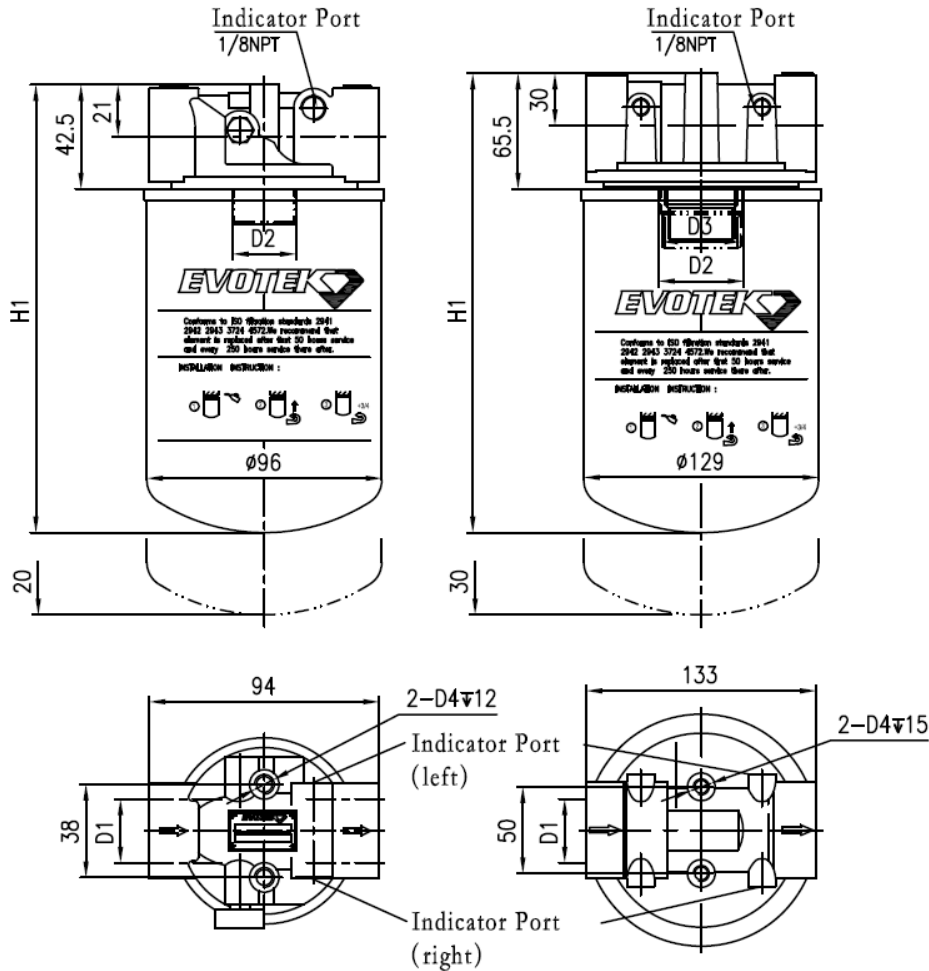


EFSS Suction Filter Series

Technical Drawings and Dimension

EFSS1 & EFSS2

EFSS3, EFSS4 & EFSS7



Threaded Connection Ports

Type	Connection Port (BSP/NPT/SAE)				Height
	D1 inch	D2	D3	D4	H1 mm
EFSS1BC	G 3/4"	G 3/4"	-	M8	188
EFSS1NC	3/4" NPT	1" - 12UNF	-	5/16-18UN	188
EFSS1A12	SAE12	1" - 12UNF	-	5/16-18UN	188
EFSS2BC	G 3/4"	G 3/4"	-	M8	234
EFSS2NC	3/4" NPT	1" - 12UNF	-	5/16-18UN	234
EFSS2A12	SAE12	1" - 12UNF	-	5/16-18UN	234
EFSS3BE	G 1 1/4"	G 1 1/4"	-	M8	248
EFSS3NE	1 1/4" NPT	-	1 1/2" - 16UN	5/16-18UN	240
EFSS3A20	SAE20	-	1 1/2" - 16UN	5/16-18UN	240
EFSS4BE	G 1 1/4"	G 1 1/4"	-	M8	293
EFSS4NE	1 1/4" NPT	-	1 1/2" - 16UN	5/16-18UN	335
EFSS4A20	SAE20	-	1 1/2" - 16UN	5/16-18UN	335
EFSS7BE	G 1 1/4"	G 1 1/4"	-	M8	375

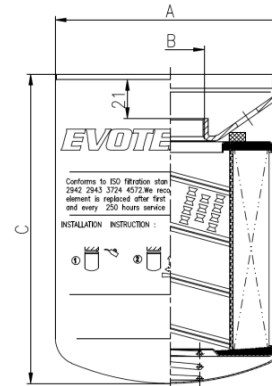
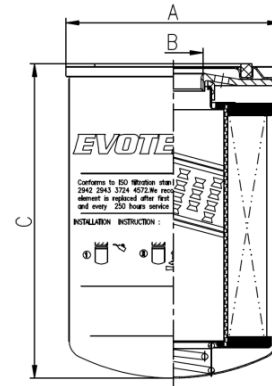
EFSS Suction Filter Series

Technical Drawings and Dimension

ELEMENT

Type	Connection Port (BSP/UN)	Diameter	Height
	inch	mm	mm
	B	A	C
EEPS1-B	G 3/4"	96	146
EEPS2-B	G 3/4"	96	191
EEPS1-U	1"-12 UNF-2B	96	146
EEPS2-U	1"-12 UNF-2B	96	191
EEPS3-B	G 1 1/4"	129	181
EEPS4-B	G 1 1/4"	129	226
EEPS7-B	G 1 1/4"	129	308

Type	Connection Port (UN)	Diameter	Height
	inch	mm	mm
	B	A	C
EEPS3-U	1 1/2" 16-UN	128	175
EEPS4-U	1 1/2" 16-UN	128	270



EFSS Suction Filter Series

Order Codes

Filter Assembly Series	A	B	C	-	D	E	-	F	G
EFSS	1	BC	00	-	B	W60	-	VA	R
Element Series	A	See prev. page			E	D			
EEPS	1	-	B (BSP) / U (UN)		W60	B			

Select the code for each filter (or element) feature according to your requirements and place it in the sequence (see example above) to create the corresponding product order code.

A Size Flow Rate

1	25 l/min
2	30 l/min
3	40 l/min
4	45 l/min
7	50 l/min

B Connection Ports

A12	SAE12
A20	SAE20
BC	BSP ¾"
BE	BSP 1¼"
NC	NPT ¾"
NE	NPT 1¼"

C By-pass Valve

00	No
02	0.3bar
X	special

D Seal

B	NBR
V	FPM

E Media Material Filtration Collapse Pressure

P10	Cellulose	10µm	4 bar
P20	Cellulose	20µm	4 bar
W60	Wire Mesh	60µm	4 bar
W90	Wire Mesh	90µm	4 bar

F Indicator

F Indicator			Connection
00	No		
VA	-1~0bar	vacuum gauge	1/8NPT Thread
S02	-0.2bar	vacuum switch	1/8NPT Thread

G Indicator Mounting position

R	Right
L	Left